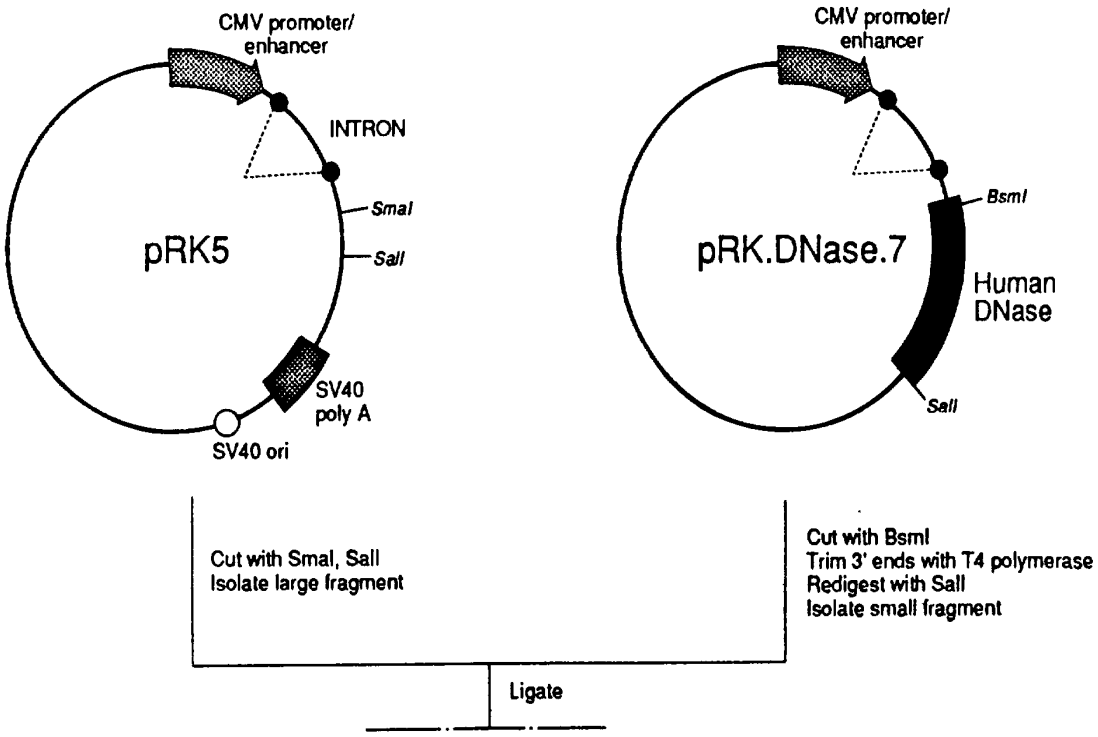
Fig. 1.

```
   1 TCCTGCACAG GCAGTGCCTT GAAGTGCTTC TTCAGAGACC TTTCTTCATA GACTACTTTT TTTTCTTTAA GCAGCAAAAG GAGAAAATTG TCATCAAAGG
     AGGACGTGTC CGTCACGGAA CTTCACGAAG AAGTCTCTGG AAAGAAGTAT CTGATGAAAA AAAAGAAATT CGTCGTTTTC CTCTTTTAAC AGTAGTTTCC
   1 SerCysThrG lySerAlaLe uLysCysPhe PheArgAspL euSerSerAM *ThrThrPhe PheSerLeuS erSerLysAr gArgLysLeu SerSerLysAsp

 101 ATATTCCAGA TTCTTGACAG CATTCTCGTC ATCTCTGAGG ACATCACCAT CATCTCAGGA TGAGGGGCAT GAAGCTGCTG GGGGCGCTGC TGGCACTGGC
     TATAAGGTCT AAGAACTGTC GTAAGAGCAG TAGAGACTCC TGTAGTGGTA GTAGAGTCCT ACTCCCCGTA CTTCGACGAC CCCCGCGACG ACCGTGACCG
  35   IleProAs pSerOP*Gln HisSerArgH isLeuOP*Gl yHisHisHis HisLeuArgM etArgGlyMe tLysLeuLeu GlyAlaLeuL euAlaLeuAla

 201 GGCCCTACTG CAGGGGGCCG TGTCCCTGAA GATCGCAGCC TTCAACATCC AGACATTTGG GGAGACCAAG ATGTCCAATG CCACCCTCGT CAGCTACATT
     CCGGGATGAC GTCCCCCGGC ACAGGGACTT CTAGCGTCGG AAGTTGTAGG TCTGTAAACC CCTCTGGTTC TACAGGTTAC GGTGGGAGCA GTCGATGTAA
  68  AlaLeuLeu GlnGlyAlaV alSerLeuLy sIleAlaAla PheAsnIleG lnThrPheGl yGluThrLys MetSerAsnA laThrLeuVa lSerTyrIle

 301 GTGCAGATCC TGAGCCGCTA TGACATCGCC CTGGTCCAGG AGGTCAGAGA CAGCCACCTG ACTGCCGTGG GGAAGCTGCT GGACAACCTC AATCAGGATG
     CACGTCTAGG ACTCGGCGAT ACTGTAGCGG GACCAGGTCC TCCAGTCTCT GTCGGTGGAC TGACGGCACC CCTTCGACGA CCTGTTGGAG TTAGTCCTAC
 101 ValGlnIleL euSerArgTy rAspIleAla LeuValGlnG luValArgAs pSerHisLeu ThrAlaValG lyLysLeuLe uAspAsnLeu AsnGlnAspAla

 401 CACCAGACAC CTATCACTAC GTGGTCAGTG AGCCACTGGG ACGGAACAGC TATAAGGAGC GCTACCTGTT CGTGTACAGG CCTGACCAGG TGTCTGCGGT
     GTGGTCTGTG GATAGTGATG CACCAGTCAC TCGGTGACCC TGCCTTGTCG ATATTCCTCG CGATGGACAA GCACATGTCC GGACTGGTCC ACAGACGCCA
 135   ProAspTh rTyrHisTyr ValValSerG luProLeuGl yArgAsnSer TyrLysGluA rgTyrLeuPh eValTyrArg ProAspGlnV alSerAlaVal

 501 GGACAGCTAC TACTACGATG ATGGCTGCGA GCCCTGCGGG AACGACACCT TCAACCGAGA GCCAGCCATT GTCAGGTTCT TCTCCCGGTT CACAGAGGTC
     CCTGTCGATG ATGATGCTAC TACCGACGCT CGGGACGCCC TTGCTGTGGA AGTTGGCTCT CGGTCGGTAA CAGTCCAAGA AGAGGGCCAA GTGTCTCCAG
 168   AspSerTyr TyrTyrAspA spGlyCysGl uProCysGly AsnAspThrP heAsnArgGl uProAlaIle ValArgPheP heSerArgPh eThrGluVal

 601 AGGGAGTTTG CCATTGTTCC CCTGCATGCG GCCCCGGGGG ACCGAGTAGC CGAGATCGAC GCTCTCTATG ACGTCTACCT GGATGTCCAA GAGAAATGGG
     TCCCTCAAAC GGTAACAAGG GGACGTACGC CGGGGCCCCC TGGCTCATCG GCTCTAGCTG CGAGAGATAC TGCAGATGGA CCTACAGGTT CTCTTTACCC
 201 ArgGluPheA laIleValPr oLeuHisAla AlaProGlyA spArgValAl aGluIleAsp AlaLeuTyrA spValTyrLe uAspValGln GluLysTrpGly

 701 GCTTGGAGGA CGTCATGTTG ATGGGCGACT TCAATGCGGG CTGCAGCTAT GTGAGACCCT CCCAGTGGTC ATCCATCCGC CTGTGGACAA GCCCCACCTT
     CGAACCTCCT GCAGTACAAC TACCCGCTGA AGTTACGCCC GACGTCGATA CACTCTGGGA GGGTCACCAG TAGGTAGGCG GACACCTGTT CGGGGTGGAA
 235   LeuGluAs pValMetLeu MetGlyAspP heAsnAlaGl yCysSerTyr ValArgProS erGlnTrpSe rSerIleArg LeuTrpThrS erProThrPhe

 801 CCAGTGGCTG ATCCCCGACA GCGCTGACAC CACAGCTACA CCCACGCACT GTGCCTATGA CAGGATCGTG GTTGCAGGGA TGCTGCTCCG AGGCGCCGTT
     GGTCACCGAC TAGGGGCTGT CGCGACTGTG GTGTCGATGT GGGTGCGTGA CACGGATACT GTCCTAGCAC CAACGTCCCT ACGACGAGGC TCCGCGGCAA
 268   GlnTrpLeu IleProAspS erAlaAspTh rThrAlaThr ProThrHisC ysAlaTyrAs pArgIleVal ValAlaGlyM etLeuLeuAr gGlyAlaVal

 901 GTTCCCGACT CGGCTCTTCC CTTTAACTTC CAGGCTGCCT ATGGCCTGAG TGACCAACTG GCCCAAGCCA TCAGTGACCA CTATCCAGTG GAGGTGATGC
     CAAGGGCTGA GCCGAGAAGG GAAATTGAAG GTCCGACGGA TACCGGACTC ACTGGTTGAC CGGGTTCGGT AGTCACTGGT GATAGGTCAC CTCCACTACG
 301 ValProAspS erAlaLeuPr oPheAsnPhe GlnAlaAlaT yrGlyLeuSe rAspGlnLeu AlaGlnAlaI leSerAspHi sTyrProVal GluValMetLeu

1001 TGAAGTGAGC AGCCCCTCCC CACACCAGTT GAACTGCAG
     ACTTCACTCG TCGGGGAGGG GTGTGGTCAA CTTGACGTC
 335   LysOP*Al aAlaProPro HisThrSerO P*ThrAla
```

Fig. 2.

```
                 10        20        30        40        50
hDNase   LKIAAFNIQTFGETKMSNATLVSYIVQILSRYDIALVQEVRDSHLTAVGK
         ********.************ ****.*. **** *...****** ****
bDNase   LKIAAFNIRTFGETKMSNATLASYIVRIVRRYDIVLIEQVRDSHLVAVGK
                 10        20        30        40        50

                 60        70        80        90       100
hDNase   LLDNLNQDAPDTYHYVVSEPLGRNSYKERYLFVYRPDQVSAVDSYYYDDG
         *** **** *.*********************..**..** .*.* ****
bDNase   LLDYLNQDDPNTYHYVVSEPLGRNSYKERYLFLFRPNKVSVLDTYQYDDG
                 60        70        80        90       100

                110       120       130       140       150
hDNase   CEPCGNDTFNREPAIVRFFSRFTEVREFAIVPLHAAPGDRVAEIDALYDV
         **.****.*.****.*.* *. * *.*****.**.**.* ****..****
bDNase   CESCGNDSFSREPAVVKFSSHSTKVKEFAIVALHSAPSDAVAEINSLYDV
                110       120       130       140       150

                160       170       180       190       200
hDNase   YLDVQEKWGLEDVMLMGDFNAGCSYVRPSQWSSIRLWTSPTFQWLIPDSA
         *****.** *.**********.**** .********.**.**********
bDNase   YLDVQQKWHLNDVMLMGDFNADCSYVTSSQWSSIRLRTSSTFQWLIPDSA
                160       170       180       190       200

                210       220       230       240       250
hDNase   DTTATPTHCAYDRIVVAGMLLRGAVVPDSALPFNFQAAYGLSDQLAQAIS
         *****.*.********** **...**  ** **.********...* ***
bDNase   DTTATSTNCAYDRIVVAGSLLQSSVVGPSAAPFDFQAAYGLSNEMALAIS
                210       220       230       240       250

                260
hDNase   DHYPVEVMLK
         ******* *
bDNase   DHYPVEVTLT
                260
```

Fig. 3.



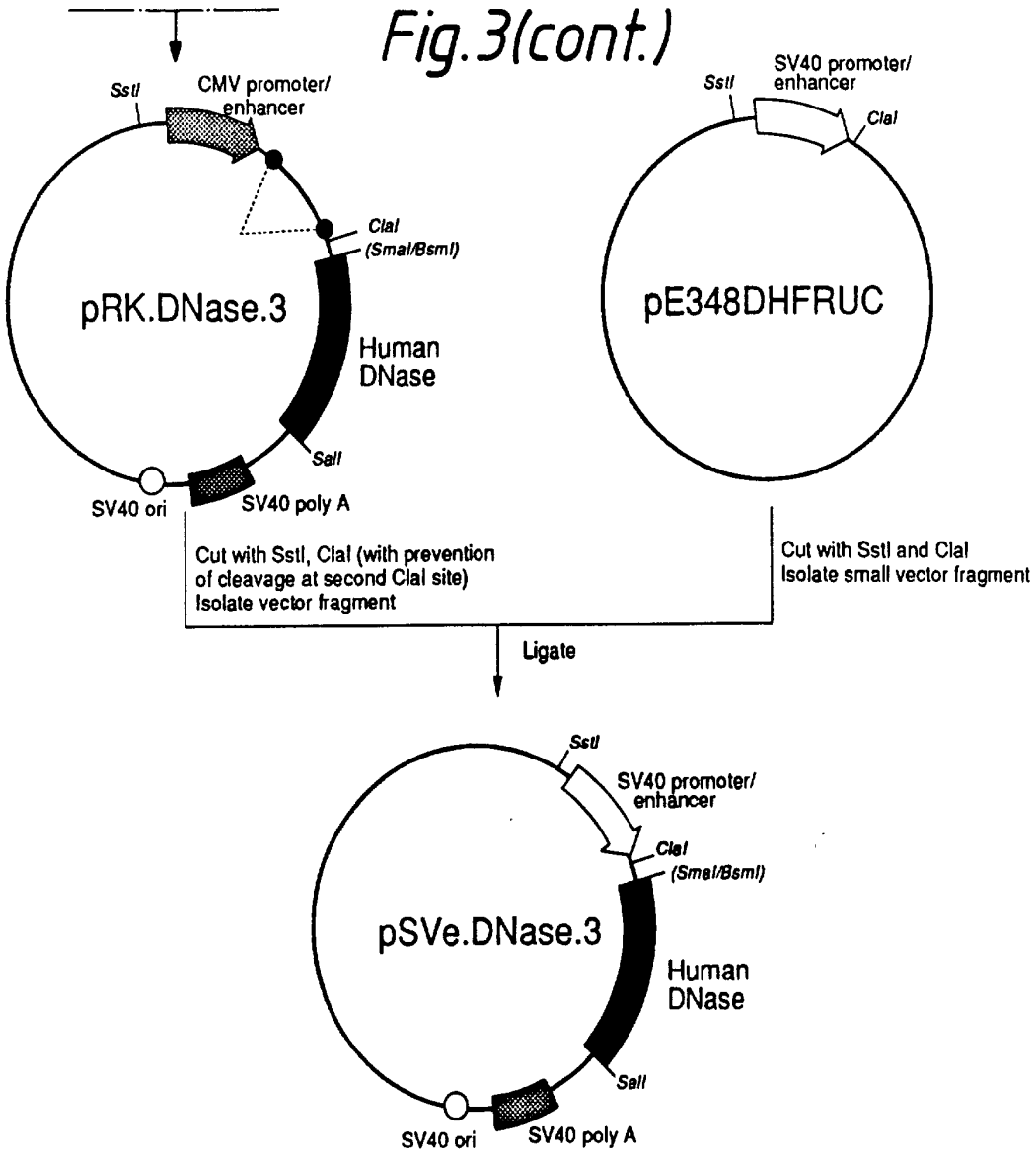


Fig.3(cont.)

Fig. 4.

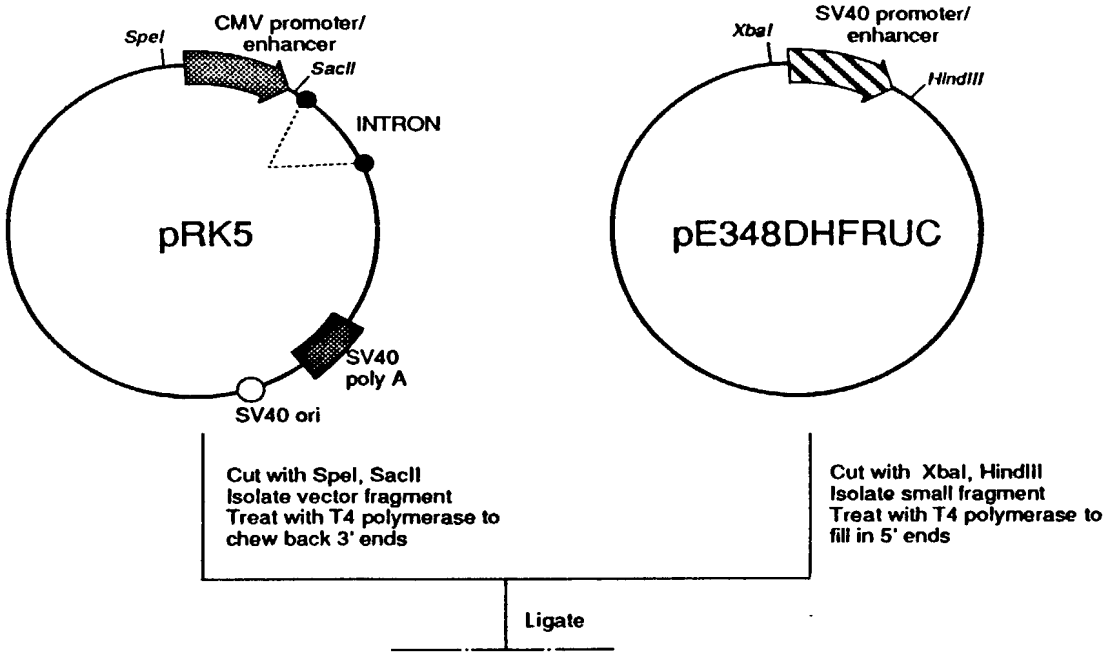


Fig. 4 (cont.)

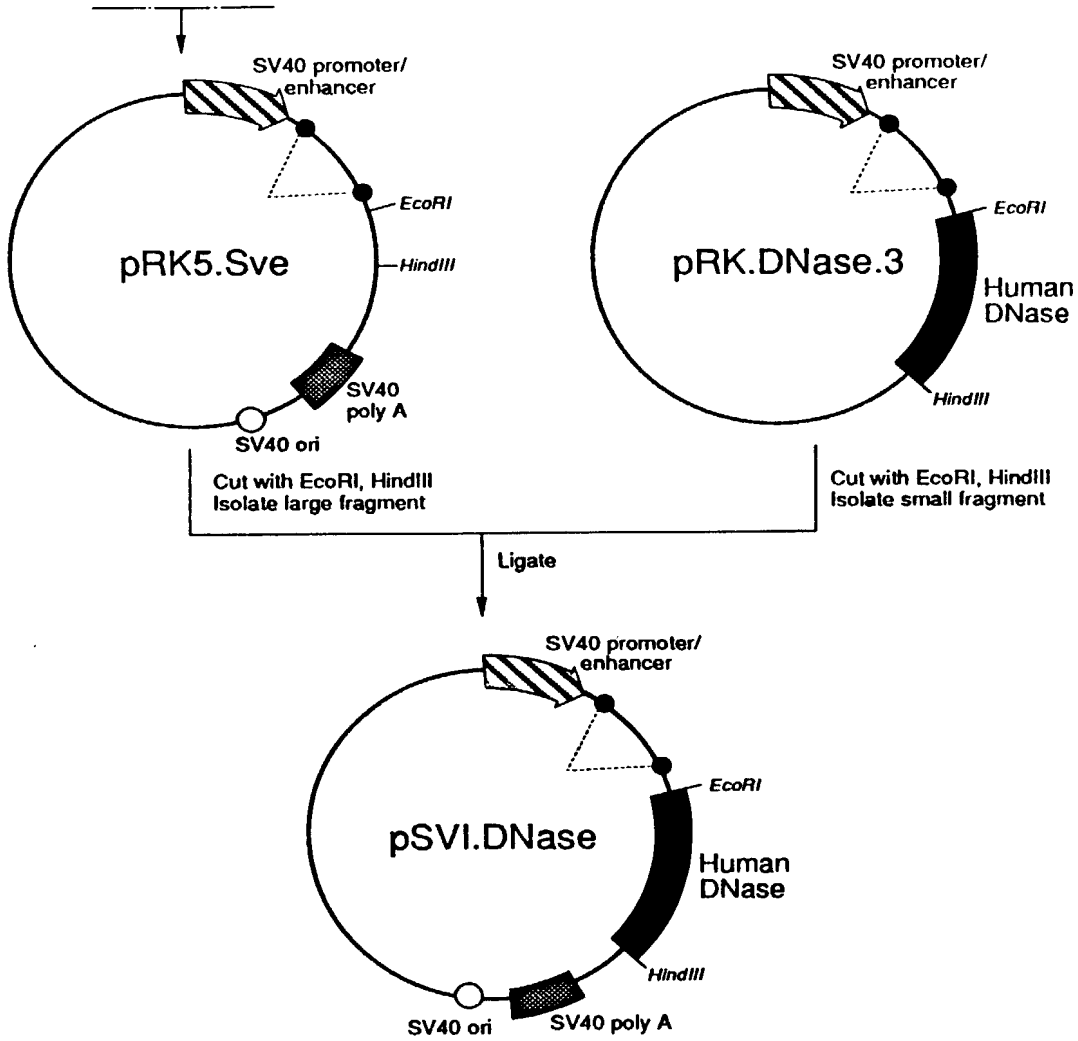


Fig. 5.

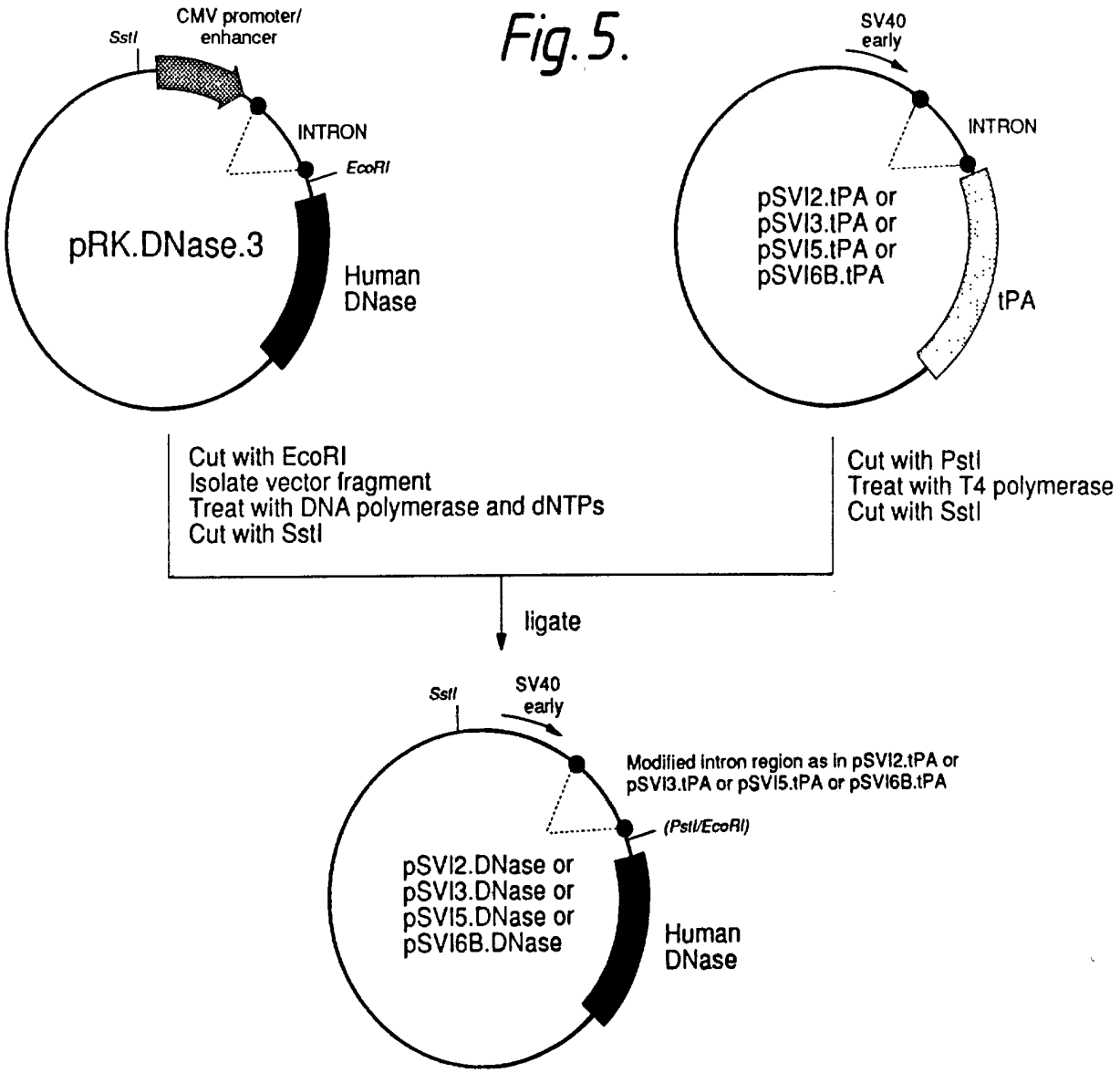


Fig.6.

Fig.6(cont.)

```
                                                                                                                    sau96I
                                                                                                                    avaII
                                                                                                                    asuI
                                                                                                                 scrFI
                                                                                                                 ecoRII
    mseI                                          hphI                fokI                                       bstNI
                      note ATG                                      sp6 RNA start
501 TTAATACATA ACCTTATGTA TCATACACAT ACGATTTAGG TGACACTATA GAATAACATC CACTTTGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC
    AATTATGTAT TGGAATACAT AGTATGTGTA TGCTAAATCC ACTGTGATAT CTTATTGTAG GTGAAACGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG

                                  bspMI
                        aluI      pstI
                      hindIII   fnu4HI
          mnlI      ddeI        bbvI                  mseI    hgaI
  1
          cloning linker
601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCGCCGT GAATTTAAGG GACGCTGTGA AGCA
    TTGACGTGGA GCCAAGATTC GAACCCGACG TCCAGCGGCA CTTAAATTCC CTGCGACACT TCGT
```

Fig.7.

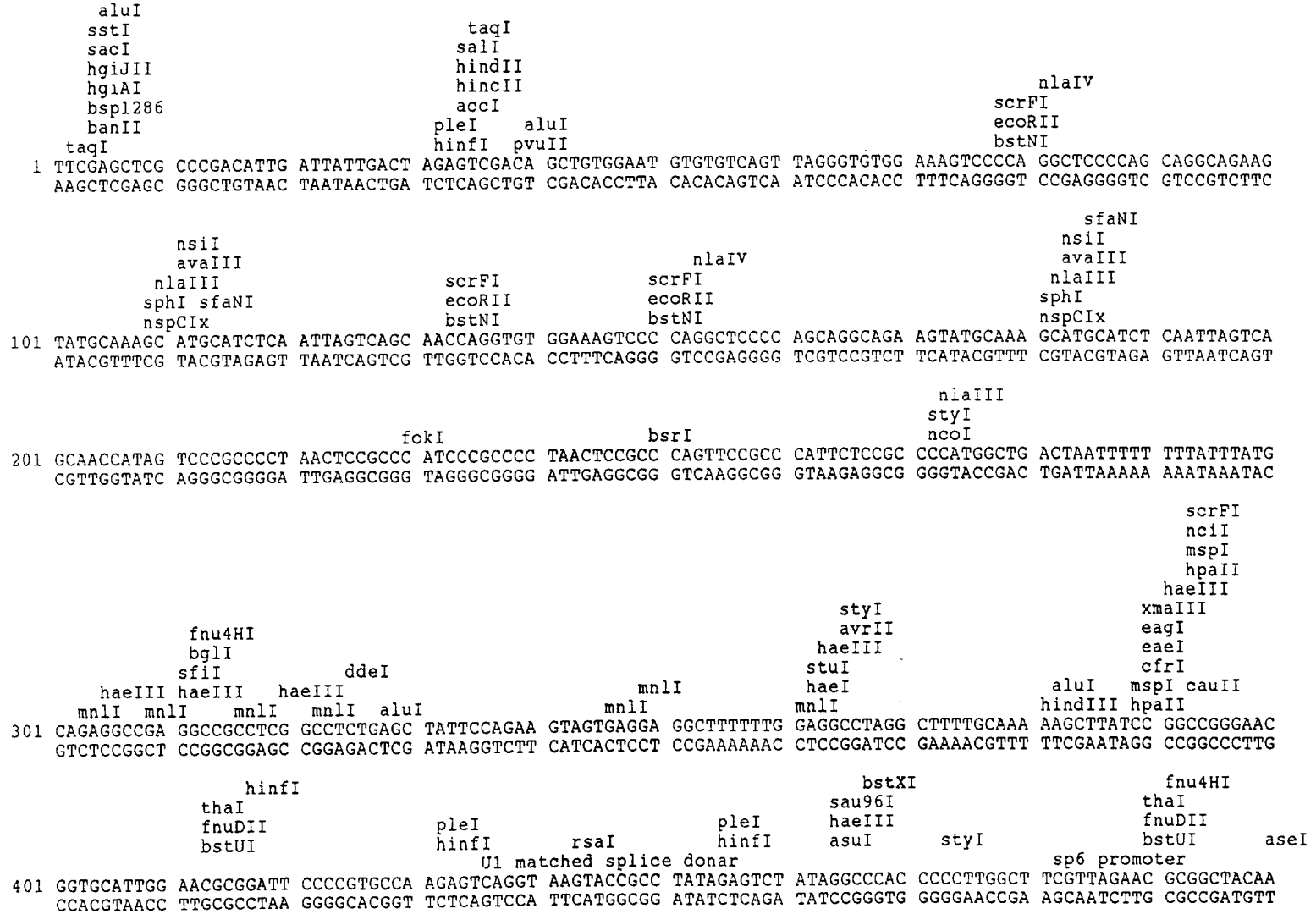


Fig. 7 (cont.)

```
                                                                                                                    sau96I
                                                                                                                    avaII
                                                                                                                    asuI
                                                                                                                 scrFI
                                                                                                                 ecoRII
    mseI                                          hphI                fokI                                       bstNI
                      note ATG                                        sp6 RNA start
501 TTAATACATA ACCTTATGTA TCATACACAT ACGATTTAGG TGACACTATA GAATAACATC CACTTTGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC
    AATTATGTAT TGGAATACAT AGTATGTGTA TGCTAAATCC ACTGTGATAT CTTATTGTAG GTGAAACGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG

                                  bspMI
                        aluI      pstI
                       hindIII   fnu4HI
          mnlI      ddeI         bbvI                  mseI    hgaI
  1
          cloning linker
601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCGCCGT GAATTTAAGG GACGCTGTGA AGCA
    TTGACGTGGA GCCAAGATTC GAACCCGACG TCCAGCGGCA CTTAAATTCC CTGCGACACT TCGT
```

Fig. 8.

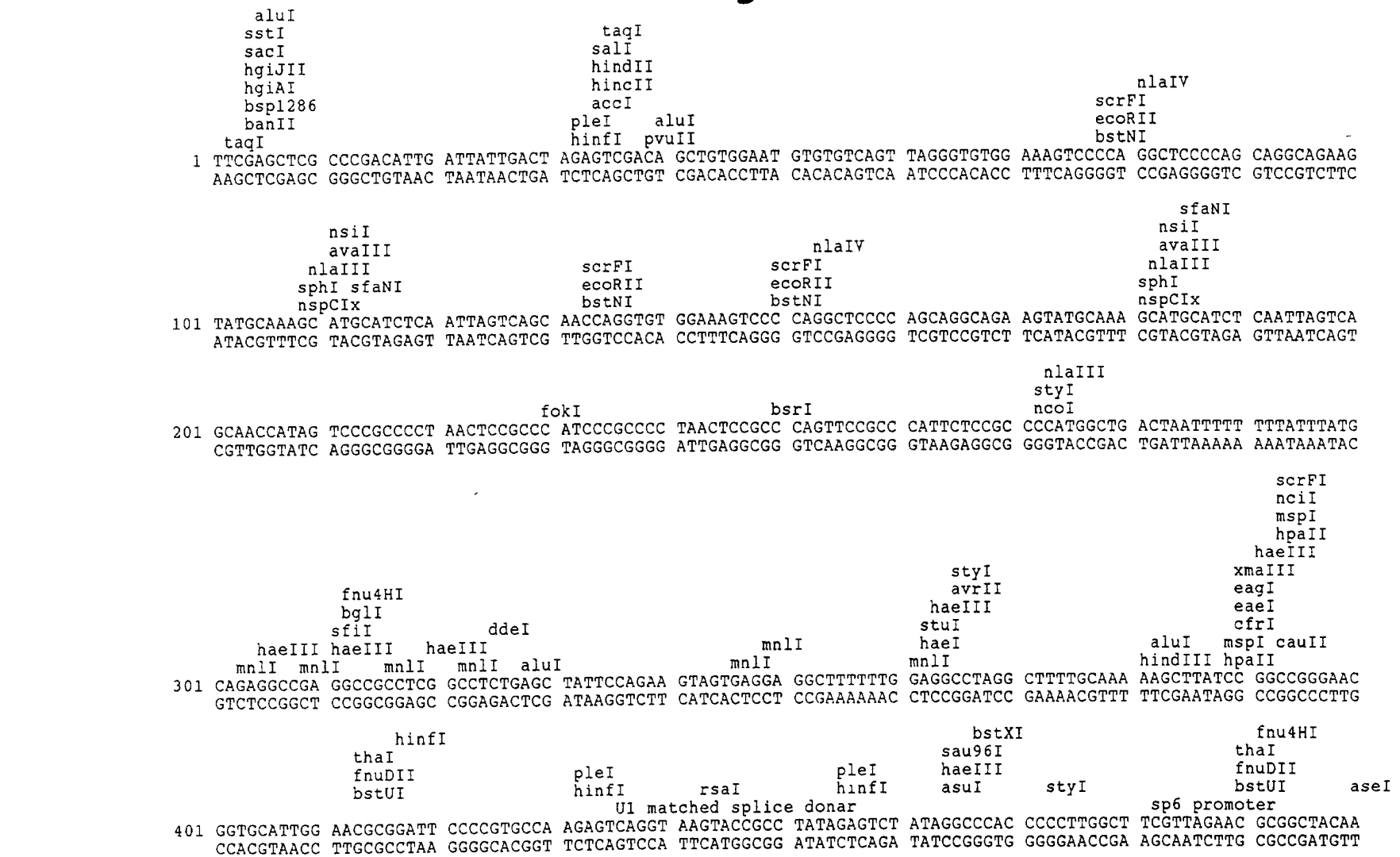


Fig.8(cont.)

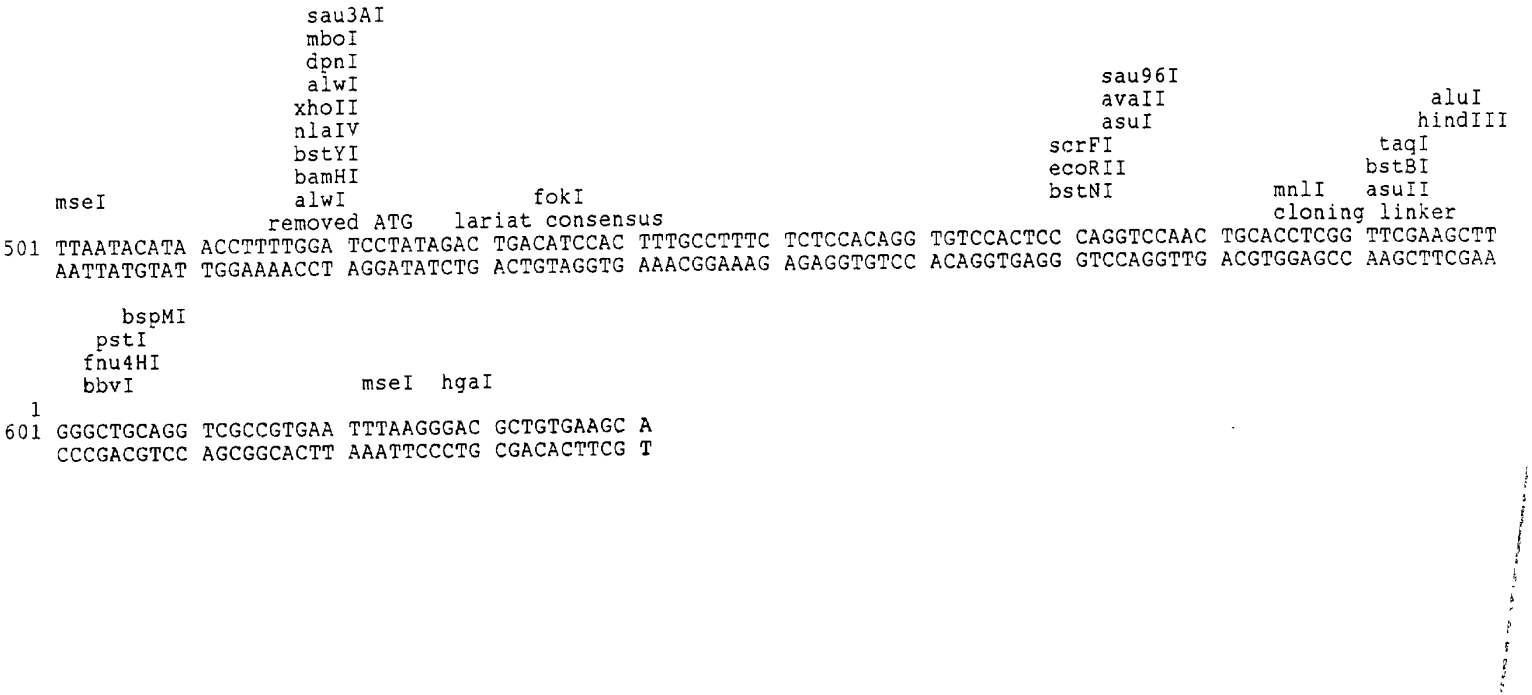


Fig. 9.

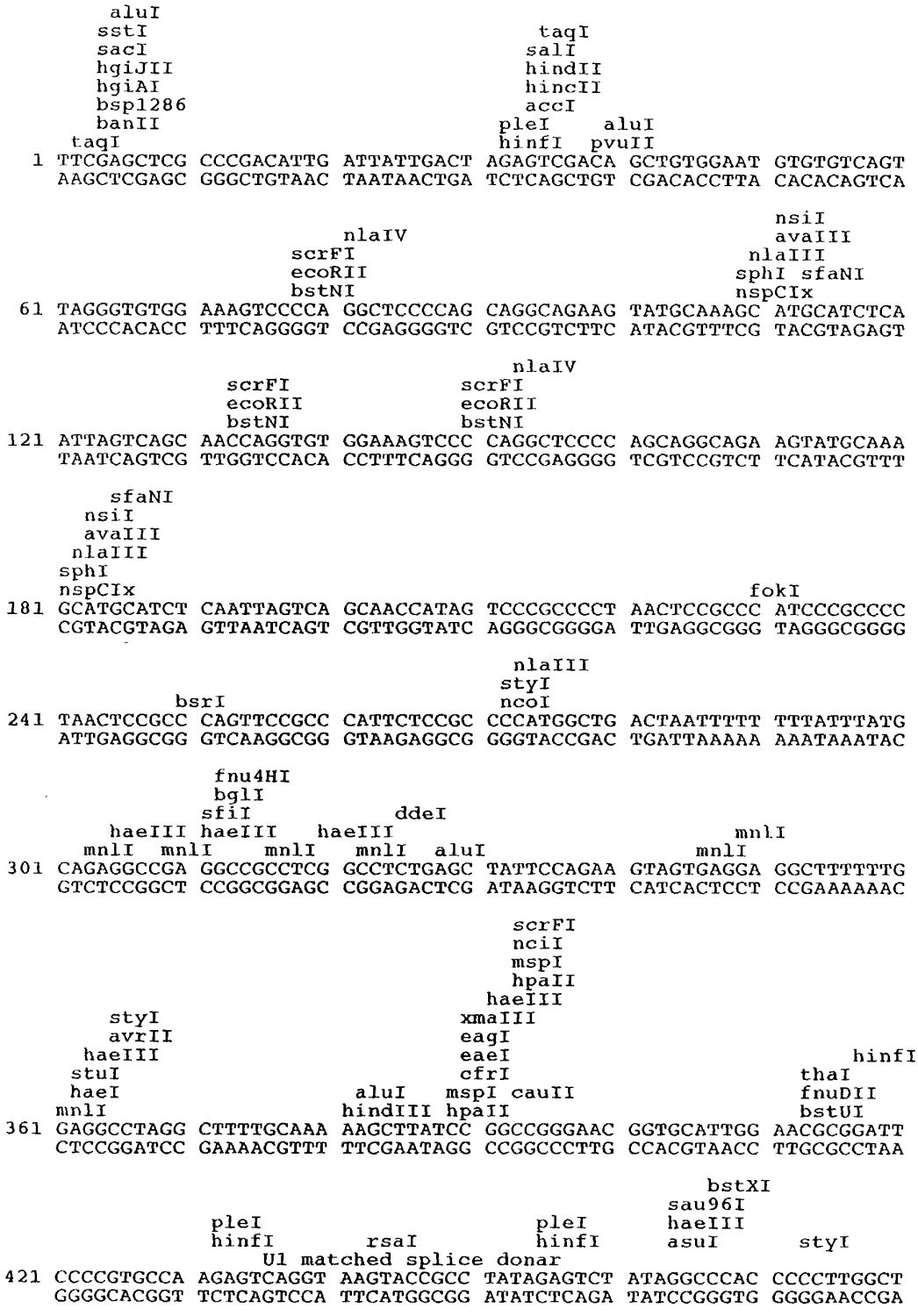


Fig. 9(cont.)

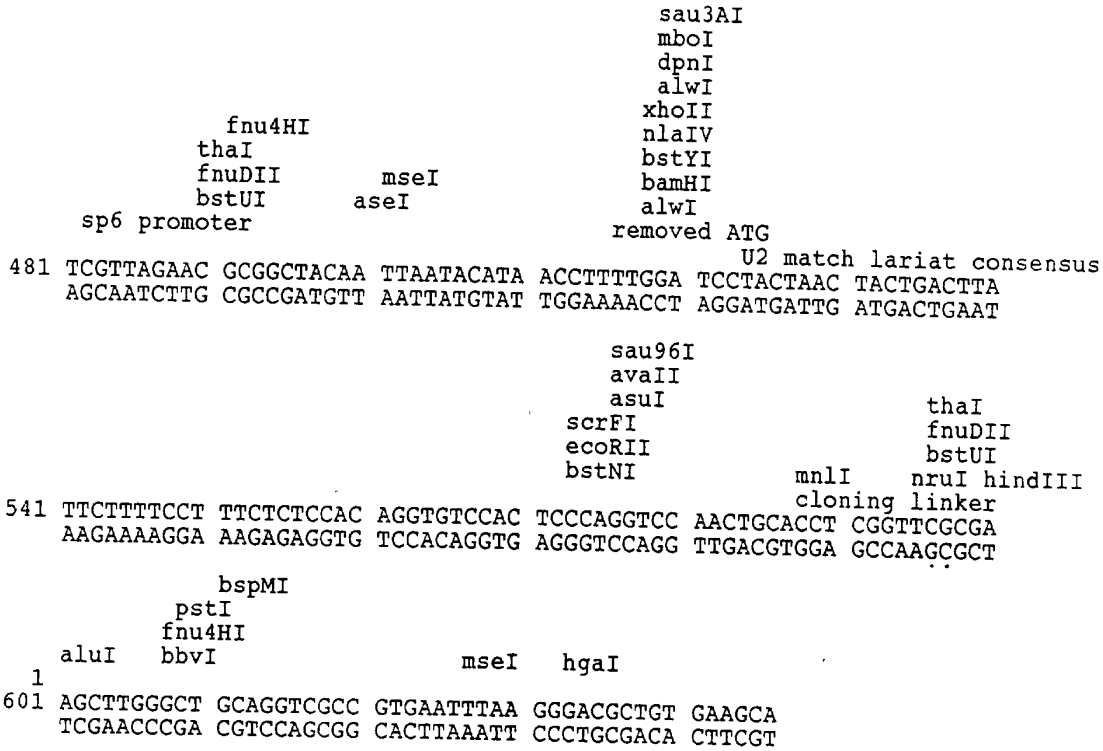


Fig. 10.

Fig. 10(cont.)

```
                      sau3AI
                      mboI
                      dpnI
                      alwI                                                    sau96I
                     xhoII                                                    avaII
                     nlaIV                                                    asuI                thaI aluI
                     bstYI                                                 scrFI                  fnuDII
                     bamHI                                                 ecoRII                 bstUI
   mseI              alwI                fokI                              bstNI          mnlI    nruI hindIII
                    removed ATG
                            U2 match
                                    lariat consensus
                                      IgG vH natural lariat restored                                cloning linker
501 TTAATACATA ACCTTTTGGA TCCTACTGAC ACTGACATCC ACTTTTTCTT TTTCTCCACA GGTGTCCACT CCCAGGTCCA ACTGCACCTC GGTTCGCGAA
    AATTATGTAT TGGAAAACCT AGGATGACTG TGACTGTAGG TGAAAAAGAA AAAGAGGTGT CCACAGGTGA GGGTCCAGGT TGACGTGGAG CCAAGCGCTT

          bspMI
         pstI
        fnu4HI
        bbvI                mseI   hgaI
  1
601 GCTTGGGCTG CAGGTCGCCG TGAATTTAAG GGACGCTGTG AAGCA
    CGAACCCGAC GTCCAGCGGC ACTTAAATTC CCTGCGACAC TTCGT
```

Fig. 11.